



1-30-07

IPW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No.: 06-351-US)

In the Application of:

Beckman, et al.

Serial No. 10/527,374

Filed: March 10, 2005

Int'l Filing Date: September 10, 2003

Title: Method and Apparatus for Simultaneous  
Heat and Mass Transfer Utilizing  
A Carrier-Gas

Group Art Unit: TBD

Examiner: TBD

Confirmation No.: 5724

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Dear Sir:

In regard to the above-identified U.S. patent application;

1. We are transmitting herewith the attached:

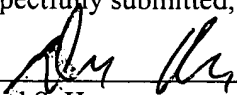
- ☒ Transmittal Letter (in duplicate);
- ☒ Second Notice: Power of Attorney/Notice of Change of Firm including copies of the postcard, transmittal letter, Revocation and Prior Power of Attorney and Change of Correspondence Transmittal Form (5 sheets);
- ☒ Request for Corrected Filing Receipt including copies of the Filing Receipt, Transmittal Letter to the U.S. DO/EO/US Concerning a Submission Under 35 U.S.C. 371, PCT Notification of Receipt of Record Copy, Filing Receipt (18 sheets); and
- ☒ Return Receipt Postcard

2. With respect to fees:

- ☒ No fee is believed to be due.
- ☒ Please charge any underpayment or credit any overpayment our Deposit Account, No. 13-2490.

3. CERTIFICATE OF MAILING BY "EXPRESS MAIL" UNDER 37 CFR § 1.10: The undersigned hereby certifies that this Transmittal Letter and the papers, as described hereinabove, are being deposited with the United States Postal Service with sufficient postage as "Express Mail Post Office to Addressee" in a box addressed to: PO Box 1450, Alexandria, VA 22313-1450, on this 29th day of January, 2007. Express Mail No. EV839377611US.

Respectfully submitted,

  
David S. Harper

Registration No. 42,636

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Case No. 06-351-US)

(Formerly Case No. ARIZ-10665)

**COPY**

In re Application of:

James R. Beckman

Serial No.: 10/527,374

Filed: March 10, 2005

Int'l Filing Date: September 10, 2003

For: Method and Apparatus for Simultaneous  
Heat and Mass Transfer Utilizing A  
Carrier-Gas



Group Art Unit: To be assigned

Examiner: To be assigned

Confirmation No.: To be assigned

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER**

With respect to the above identified application:

1. We are transmitting herewith the attached:

- ☒ Transmittal Letter
- ☒ Revocation of Prior Power of Attorney (1 sheet);
- ☒ Change of Correspondence Address Form (1 sheet);
- ☒ Return receipt postcard

2. With respect to fees:


- ☒ No fee is required.

3. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490.

4. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned also hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313 on this 7<sup>th</sup> day of June, 2006.

**McDonnell Boehnen Hulbert & Berghoff LLP**

By

  
David S. Harper  
Reg. No. 42,636

# COPY

Hon. Commissioner of  
Patents and Trademarks

S/N: 10/527,374

Atty DSH:df

Re: Applicant - James R. Beckman

Case No. 06-351-US

**Method and Apparatus for Simultaneous Heat and Mass  
Transfer Utilizing a Carrier-Gas**

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- ☒ Transmittal Letter
- ☒ Revocation of Prior Power of Attorney (1 sheet);
- ☒ Change of Correspondence Address Form (1 sheet);
- ☒ Return receipt postcard

**Fee Enclosed**

\$ -0-

Mailed: June 7, 2006

Respectfully,  
McDonnell Boehnen Hulbert & Berghoff LLP  
Attorney for Applicant



**IAP6 Rec'd PCT/PTO 12 JUN 2006**

**BEST AVAILABLE COPY**

**BEST AVAILABLE COPY**



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 06-351-US)

In re Application of: )  
 )  
 **Beckman, et al.** ) Group Art Unit: TBD  
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 Serial No.: **10/527,374** ) Examiner: TBD  
 )  
 Filed: **March 10, 2005** ) Confirmation No.: 5724  
 Int'l Filing Date: September 10, 2003 )  
 )  
 For: **Method and Apparatus for Simultaneous** )  
 **Heat and Mass Transfer Utilizing A Carrier-Gas** )

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**SECOND NOTICE: POWER OF ATTORNEY/ NOTICE OF CHANGE OF FIRM**


Dear Sir,

On June 7, 2006 a Revocation of Prior Power of Attorney and A Change of Correspondence Address Form was submitted to the USPTO. The documents are attached herewith. Also attached herewith is a copy of the stamped receipt postcard showing the USPTO accepted these documents on June 12, 2006. However, correspondence is still being sent to the previous attorney of record. We are requesting that these documents be entered, the application be updated, and that all subsequent correspondence be directed to David S. Harper as noted in the attached Notice of Change of Firm form.

Respectfully submitted,

Date:

1/29/07

  
\_\_\_\_\_  
David S. Harper  
Registration No. 42,636

McDonnell Boehnen Hulbert & Berghoff LLP  
300 South Wacker Drive, 32nd Floor  
Chicago, IL 60606  
(312)913-0001

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Case No. 06-351-US)

(Formerly Case. No. ARIZ-10665)

**COPY**

In re Application of:

James R. Beckman



Serial No.: 10/527,374

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Int'l Filing Date: September 10, 2003

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Heat and Mass Transfer Utilizing A  
Carrier-Gas

Group Art Unit: To be assigned

Examiner: To be assigned

Confirmation No.: To be assigned

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**NOTICE OF CHANGE OF FIRM**

Dear Sir:

Effective immediately, the law firm handling the above captioned patent application has changed. Accordingly, please refer to this application by the new case number 06-351-US and direct all subsequent correspondence in this case to:

David S. Harper

McDonnell Boehnen Hulbert & Berghoff LLP  
300 South Wacker Drive  
Suite: 3100  
Chicago, Illinois 60606

Respectfully submitted,

Dated: 6/7/06By: 

David S. Harper

Registration No. 42,636

McDonnell Boehnen  
Hulbert & Berghoff LLP  
300 South Wacker Drive, 31<sup>st</sup> Floor  
Chicago, Illinois 60606  
(312) 913-0001

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# COPY

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Case No. 06-351-US)

(Formerly Case. No. ARIZ-10665)

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James R. Beckman

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Group Art Unit: To be assigned

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Confirmation No.: To be assigned

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**POWER OF ATTORNEY BY APPLICANT OF ENTIRE INTEREST**  
**(REVOCATION OF PRIOR POWERS)**

I hereby revoke all previous powers of attorney and hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306

Principal attorney or agent: David S. Harper

Telephone number: 312-913-0001

Full name of sole inventor: James R. Beckman

Inventor's signature: James R. Beckman

Date: May 30, 2006

Residence: 1937 East Calle de Arcos, Tempe, Arizona 85284 USA

Citizenship: United States of America

Post Office Address: 1937 East Calle de Arcos, Tempe, Arizona 85284 USA



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE



# COPY

Commissioner for Patents  
Washington, DC 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
60/419,867	10/21/2002		80	P35502-072448.035	1		

CONFIRMATION NO. 4225

21003  
BAKER & BOTTS  
30 ROCKEFELLER PLAZA  
NEW YORK, NY 10112

## FILING RECEIPT



\*OC000000009094299\*

Date Mailed: 11/13/2002

Receipt is acknowledged of this provisional Patent Application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

### Applicant(s)

James R. Beckman, Tempe, AZ;

If Required, Foreign Filing License Granted 11/12/2002

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**\*\* SMALL ENTITY \*\***

### Title

Energy efficient carrier-gas fractionating towers

**LICENSE FOR FOREIGN FILING UNDER**  
**Title 35, United States Code, Section 184**  
**Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

**BEST AVAILABLE COPY**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### **NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time; if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).